



# UNITED STATES PATENT AND TRADEMARK OFFICE

UNITED STATES DEPARTMENT OF COMMERCE  
United States Patent and Trademark Office  
Address: COMMISSIONER FOR PATENTS  
P.O. Box 1450  
Alexandria, Virginia 22313-1450  
www.uspto.gov

APPLICATION NO.	FILING DATE	FIRST NAMED INVENTOR	ATTORNEY DOCKET NO.	CONFIRMATION NO.
10/539,480	06/22/2005	Peter Axelberg	1511-1040	3318

466 7590 02/04/2008  
YOUNG & THOMPSON  
745 SOUTH 23RD STREET  
2ND FLOOR  
ARLINGTON, VA 22202

EXAMINER
----------

BARAN, MARY C

ART UNIT	PAPER NUMBER
----------	--------------

2857

MAIL DATE	DELIVERY MODE
-----------	---------------

02/04/2008

PAPER

**Please find below and/or attached an Office communication concerning this application or proceeding.**

The time period for reply, if any, is set in the attached communication.

**Office Action Summary**

Application No.

10/539,480

Applicant(s)

AXELBERG ET AL.

Examiner

MARY C. BARAN

Art Unit

2857

-- The MAILING DATE of this communication appears on the cover sheet with the correspondence address --

**Period for Reply**

A SHORTENED STATUTORY PERIOD FOR REPLY IS SET TO EXPIRE 3 MONTH(S) OR THIRTY (30) DAYS, WHICHEVER IS LONGER, FROM THE MAILING DATE OF THIS COMMUNICATION.

- Extensions of time may be available under the provisions of 37 CFR 1.136(a). In no event, however, may a reply be timely filed after SIX (6) MONTHS from the mailing date of this communication.
- If NO period for reply is specified above, the maximum statutory period will apply and will expire SIX (6) MONTHS from the mailing date of this communication.
- Failure to reply within the set or extended period for reply will, by statute, cause the application to become ABANDONED (35 U.S.C. § 133). Any reply received by the Office later than three months after the mailing date of this communication, even if timely filed, may reduce any earned patent term adjustment. See 37 CFR 1.704(b).

**Status**

- 1) ☒ Responsive to communication(s) filed on 02 January 2008.
- 2a) ☐ This action is FINAL. 2b) ☒ This action is non-final.
- 3) ☐ Since this application is in condition for allowance except for formal matters, prosecution as to the merits is closed in accordance with the practice under *Ex parte Quayle*, 1935 C.D. 11, 453 O.G. 213.

**Disposition of Claims**

- 4) ☒ Claim(s) 1,2,4-9 and 11-17 is/are pending in the application.
- 4a) Of the above claim(s) \_\_\_\_\_ is/are withdrawn from consideration.
- 5) ☐ Claim(s) \_\_\_\_\_ is/are allowed.
- 6) ☒ Claim(s) 1,2,4-9 and 11-17 is/are rejected.
- 7) ☐ Claim(s) \_\_\_\_\_ is/are objected to.
- 8) ☐ Claim(s) \_\_\_\_\_ are subject to restriction and/or election requirement.

**Application Papers**

- 9) ☐ The specification is objected to by the Examiner.
- 10) ☒ The drawing(s) filed on 19 June 2007 is/are: a) ☒ accepted or b) ☐ objected to by the Examiner.  
Applicant may not request that any objection to the drawing(s) be held in abeyance. See 37 CFR 1.85(a).  
Replacement drawing sheet(s) including the correction is required if the drawing(s) is objected to. See 37 CFR 1.121(d).
- 11) ☐ The oath or declaration is objected to by the Examiner. Note the attached Office Action or form PTO-152.

**Priority under 35 U.S.C. § 119**

- 12) ☒ Acknowledgment is made of a claim for foreign priority under 35 U.S.C. § 119(a)-(d) or (f).
- a) ☒ All b) ☐ Some \* c) ☐ None of:
1. ☐ Certified copies of the priority documents have been received.
  2. ☐ Certified copies of the priority documents have been received in Application No. \_\_\_\_\_.
  3. ☒ Copies of the certified copies of the priority documents have been received in this National Stage application from the International Bureau (PCT Rule 17.2(a)).
- \* See the attached detailed Office action for a list of the certified copies not received.

**Attachment(s)**

- |  |   |
|--|---|
| 1) <input type="checkbox"/> Notice of References Cited (PTO-892)   | 4) <input type="checkbox"/> Interview Summary (PTO-413)<br>Paper No(s)/Mail Date. _____ |
| 2) <input type="checkbox"/> Notice of Draftsperson's Patent Drawing Review (PTO-948)                       | 5) <input type="checkbox"/> Notice of Informal Patent Application                       |
| 3) <input type="checkbox"/> Information Disclosure Statement(s) (PTO/SB/08)<br>Paper No(s)/Mail Date _____ | 6) <input type="checkbox"/> Other: _____  |

## **DETAILED ACTION**

### ***Response to Amendment***

1. The action is responsive to the Amendment filed on 2 January 2008. Claims 1, 2, 4-9 and 11-17 are pending. Claims 1, 4-9, 11-14 and 16 are amended. Claims 3 and 10 are cancelled.

### ***Claim Objections***

2. Claims 1, 2, 4, 5, 7 and 12-14 are objected to because of the following informalities:

(a) Claim 1 page 2 lines 1-2, "Method for deciding the direction to" should be -- "A method for determining the direction of --.

(b) Claim 1 page 2 lines 3-5, please delete "with alternating current with a network frequency ( $f_c$ ) with low-frequency amplitude variations from the flickering source"

(c) Claim 1 page 2 line 5, please insert "the method" before "comprising".

(d) Claim 1 page 2 line 6 and line 10, "at a measuring point, recording" should be -- recording at a measuring point --.

(e) Claim 1 page 3 line 9, "in which direction" should be -- the direction --.

(f) Claim 1 page 3 line 11, "of which" should be -- the --.

(g) Claim 1 page 3 line 14 and line 24, "demodulation of" should be -- demodulating --.

(h) Claim 1 page 3 line 14 and line 24, please delete "step".

Art Unit: 2857

(i) Claim 1 page 3 line 16, "creation of" should be -- creating --.

(j) Claim 1 page 3 line 18 and page 4 line 3, "filer" should be -- filter --.

Appropriate correction is required.

3. The above list of claim objections is not exhaustive and meant to illustrate some of the grammatical errors with the claimed language. Applicant is asked to review claims and amend them to conform with U.S. practice as suggested in the 35 U.S.C. 112 rejections listed below.

***Claim Rejections - 35 USC § 112***

4. The following is a quotation of the second paragraph of 35 U.S.C. 112:

The specification shall conclude with one or more claims particularly pointing out and distinctly claiming the subject matter which the applicant regards as his invention.

Claims 1, 2, 4-9 and 11-17 are rejected under 35 U.S.C. 112, second paragraph, as being indefinite for failing to particularly point out and distinctly claim the subject matter which applicant regards as the invention.

The claims are generally narrative and indefinite, failing to conform with current U.S. practice. They appear to be a literal translation into English from a foreign document and are replete with grammatical and idiomatic errors.

Claim 6 recites the limitation, "the filtering is carried out with a bandpass filter"; however, it is not clear which filtering step this is referring to (i.e. filtering current or filtering voltage).

Claim 7 recites the limitation, "multiplying, element by element, of the voltage vector and the current vector"; however it is not clear which elements of the vectors are being multiplied together.

Claim 7 recites the limitation, "multiplying the power vector by a weighting vector that eliminates the power component that originates from the network frequency, with the power vector comprising partial powers concerning power components from the flickering source"; however, it is not clear from the claimed language which power component is being eliminated.

Claim 9 recites the limitation "replace W" in page 8 line 18. There is insufficient antecedent basis for this limitation in the claim.

Claim 9 recites the limitation, "eliminate the power component"; however, it is not clear from the claimed language which part of the power is being eliminated.

Claim 12 recites the limitation, "multiplying, element by element"; however, it is not clear which elements of the vectors are being multiplied together.

Claim 12 recites the limitation, "eliminates the power component"; however, it is not clear from the claimed language which part of the power vector is being eliminated.

Claim 13 recites the limitation, "the signal processing of the current signal"; however, there is no specific "signal processing" step and it is not clear if this limitation is referring to the "demodulating step" or the "creating a product by multiplying".

Claim 13 recites the limitation, "the signal processing of the voltage signal" ; however, there is no specific "signal processing" step and it is not clear if this limitation is referring to the "demodulating step" or the "creating a product by multiplying".

Art Unit: 2857

Claim 15 recites the limitation, "the filtering is carried out with a bandpass filter"; however, it is not clear which filtering step this is referring to (i.e. filtering current or filtering voltage).

Claim 16 recites the limitation, "the filtering is carried out with a bandpass filter"; however, it is not clear which filtering step this is referring to (i.e. filtering current or filtering voltage).

Claim 17 recites the limitation, "the filtering is carried out with a bandpass filter"; however, it is not clear which filtering step this is referring to (i.e. filtering current or filtering voltage).

### ***Response to Arguments***

5. Applicant's arguments, filed 2 January 2008, with respect to claims 1, 2, 4-9 and 11-17 have been fully considered and are persuasive. The previous 35 U.S.C. 102(b) rejections of claims 1, 2, 4-9 and 11-17 have been withdrawn.

### ***Conclusion***

6. Any inquiry concerning this communication or earlier communications from the examiner should be directed to MARY C. BARAN whose telephone number is (571)272-2211. The examiner can normally be reached on Monday to Friday 9:00-5:00.

If attempts to reach the examiner by telephone are unsuccessful, the examiner's supervisor, Eliseo Ramos-Feliciano can be reached on (571) 272-7925. The fax phone

Art Unit: 2857

number for the organization where this application or proceeding is assigned is 571-273-8300.

Information regarding the status of an application may be obtained from the Patent Application Information Retrieval (PAIR) system. Status information for published applications may be obtained from either Private PAIR or Public PAIR. Status information for unpublished applications is available through Private PAIR only. For more information about the PAIR system, see <http://pair-direct.uspto.gov>. Should you have questions on access to the Private PAIR system, contact the Electronic Business Center (EBC) at 866-217-9197 (toll-free). If you would like assistance from a USPTO Customer Service Representative or access to the automated information system, call 800-786-9199 (IN USA OR CANADA) or 571-272-1000.

Mary Catherine Baran  
30 January 2008

*Hal Wachsmen*  
**HAL WACHSMAN**  
**PRIMARY EXAMINER**  
*Av 285-7*